

Fig. 1

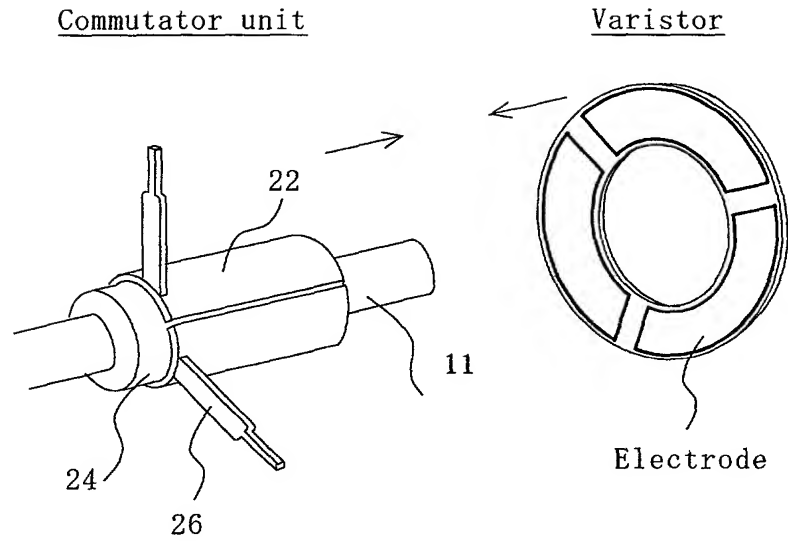
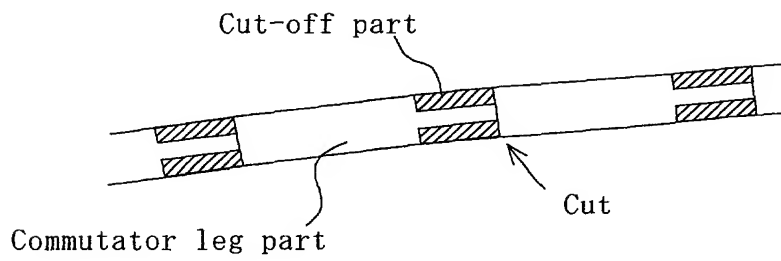
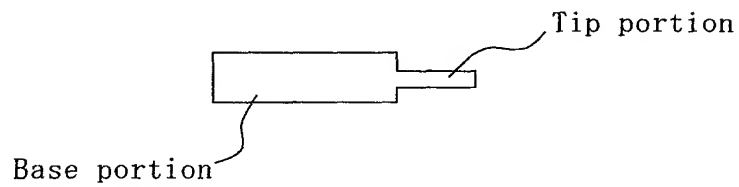


Fig. 2

Parent metal sheet to punch out commutator leg parts



Commutator leg part



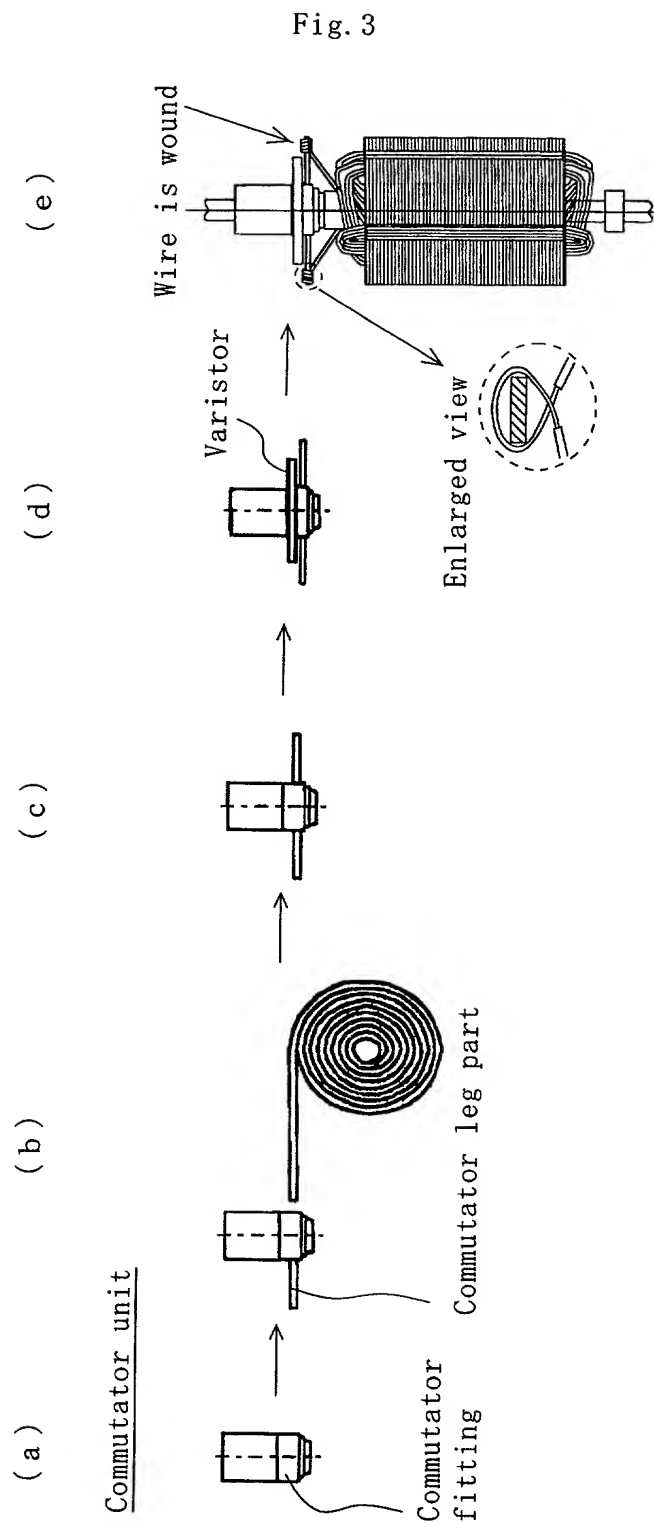


Fig. 3

Fig. 4

Rotor

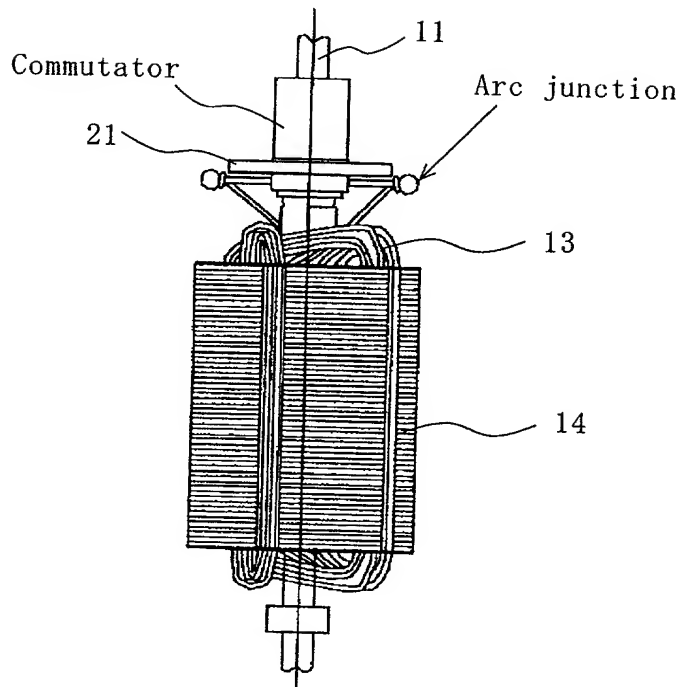


Fig. 5

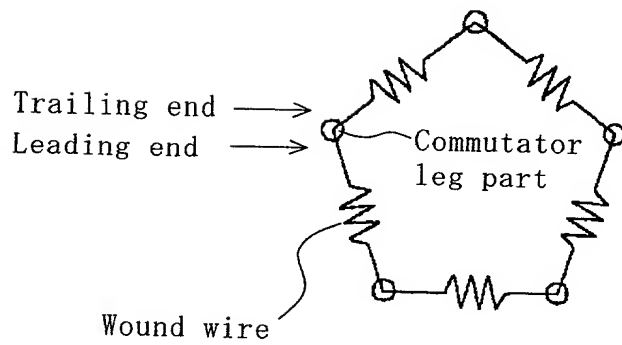


Fig. 6

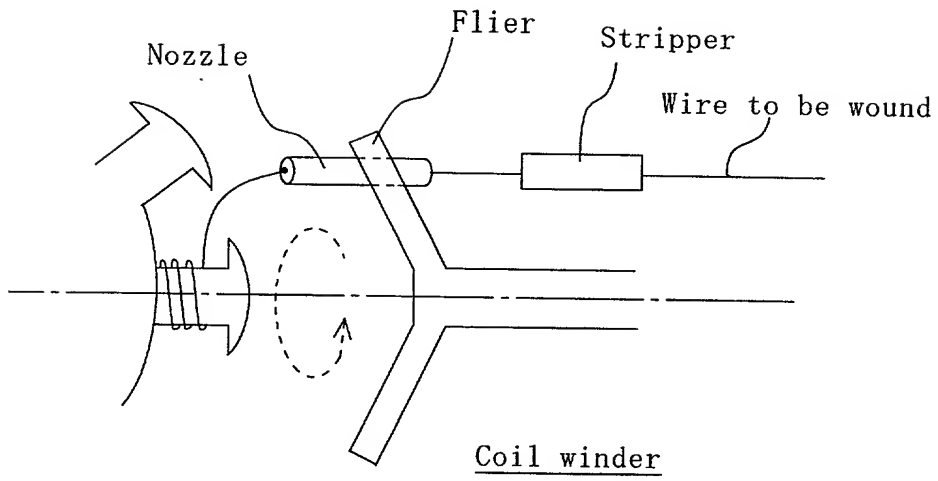


Fig. 7

Prior art

Commutator unit

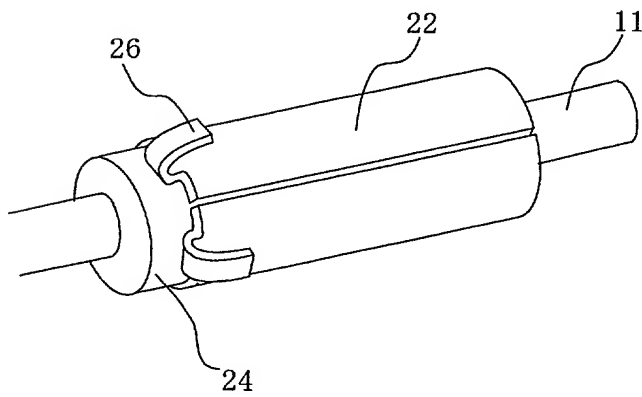


Fig. 8

Prior art

Commutator unit

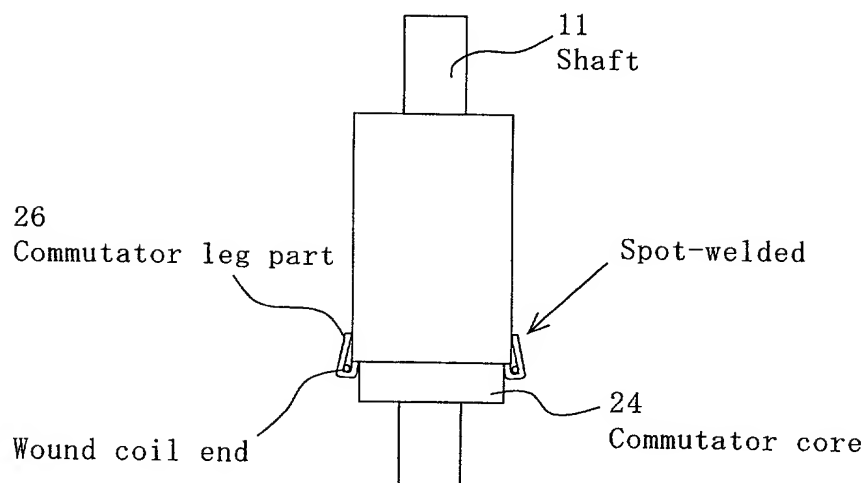
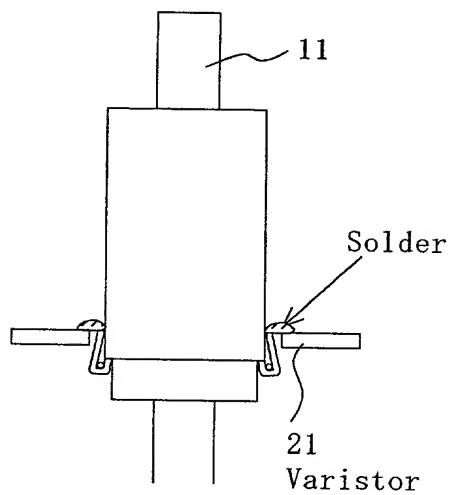


Fig. 9

Prior art

Commutator unit



Varistor

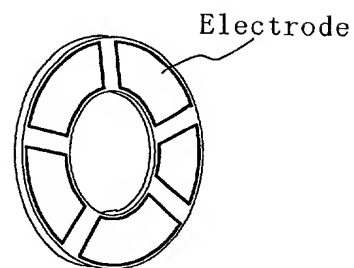


Fig. 10

Prior art

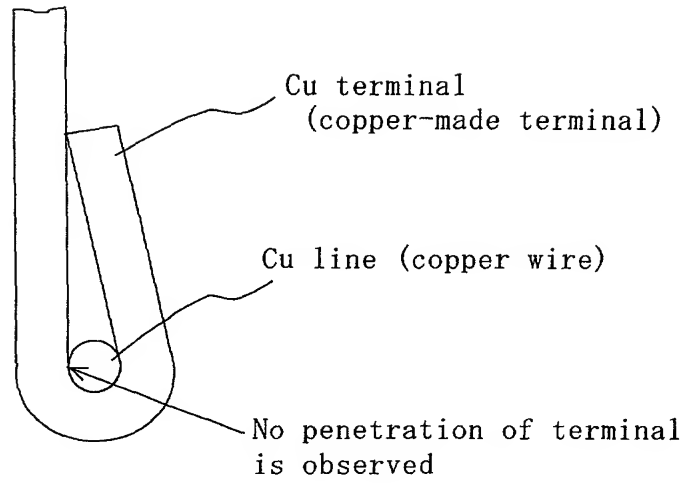


Fig. 11

